

AGENDA

2005 ENERGY REPORT COMMITTEE WORKSHOP ON TRANSMISSION – RENEWABLES OPERATIONAL INTEGRATION ISSUES

THURSDAY, FEBRUARY 3, 2005
Hearing Room A

(Times are approximate)

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| 9:00 | I. | Opening Comments (Commissioner Geesman) |
| 9:10 | II. | Background and Scope (Don Kondoleon, Energy Commission) |
| 9:15 | III. | Review Project Work Plan, Studies, and Reports (Jim Dyer, Electric Power Group. LLC) <ul style="list-style-type: none">a. How stakeholders were identifiedb. How the List of Issues was developedc. Review each item on the List of Issues |
| 10:00 | IV. | Presentation of White Paper: <i>Interconnection of Intermittent Resources</i> (Yuri Makarov, California Independent System Operator) |
| 10:20 | V. | Wind Resource Technology Presentation (Nick Miller, General Electric) |
| 10:50 | VI. | Stakeholder Panel Discussion (Joe Eto, Consortium for Electric Reliability Technology Solutions) <ul style="list-style-type: none">a. Is the List of Issues valid?b. Have the issues been accurately characterized?c. Are there issues or potential issues that have not been captured on the list?d. Is the study headed in the right direction and adequately focused? |
| 11:30 | VII. | Open Discussion |
| | VIII. | Closing Comments: Next Steps (Don Kondoleon, Energy Commission) |
| | IX. | Committee Closing Remarks (Commissioner Geesman) |

Attachment A

List of Issues and Questions for February 3, 2005 Workshop

List of Issues (Identified to Date)

1. Load following generation and compliance with North American Electric Reliability Council Control Performance Standards
2. Minimum load challenges and the potential need for storage
3. Reserves
4. Forecasting intermittent resources
5. Existing contracts and standard products
6. Voltage performance
7. Electrical governor performance
8. Congestion
9. California imports and Western Electricity Coordinating Council transfer path capability
10. Resource attribute requirements and retirement risk of California-controllable generation

Questions for the Stakeholder Panel Discussion

1. Is the List of Issues valid?
2. Have the issues been accurately characterized?
3. Are there issues or potential issues that have not been captured on the list?
4. Is the study headed in the right direction and adequately focused?

Additional Questions for Stakeholder Panel (Time Permitting)

1. Will the retirement of conventional gas fired units and the growing percentage in the generation mix of gas fired Combined Cycle Gas Turbine units, which have little or no ability for system regulation, have a major impact on the state's ability to effectively integrate renewable resources? If so, how?
2. In the case of the California Independent System Operator control area, who is responsible and what is the process to assure that it has an adequate resource mix, with the necessary attributes, to meet the control area's ancillary service requirements?
3. What steps are needed to assure that California customers get the full benefit (e.g., deliverability and integration) of the renewable resources that are connected to the grid?
4. What do California and others in the Western Electricity Coordinating Council need to do to maintain existing transmission path ratings that could be impacted as a result of significant changes in the region's generation resource mix (e.g., addition of baseload resources with limited or no governor response)?